

Installation Manual

RBS TH Hanging Bird



RBS 1TH/2TH/3TH /4TH

Hanging Turkey Scale

Ag/MIS/ImGb-2875-01/23 Rev 1.2

P/N: 116902

RBS 1TH, 2TH, 3TH, 4TH

Manual for use and maintenance

Rev 1.2; 04/2023

This manual for use and maintenance is an integral part of the apparatus together with the attached technical documentation.

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Munters reserves the right to effect modifications to the apparatus in accordance with technical and legal developments.

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1 Introduction

1.1 Disclaimer

Munters reserves the right to make alterations to specifications, quantities, dimensions etc. for production or other reasons, subsequent to publication. The information contained herein has been prepared by qualified experts within Munters. While we believe the information is accurate and complete, we make no warranty or representation for any particular purposes. The information is offered in good faith and with the understanding that any use of the units or accessories in breach of the directions and warnings in this document is at the sole discretion and risk of the user.

1.2 Introduction

Congratulations on your excellent choice of purchasing an RBS TH!

In order to realize the full benefit from this product it is important that it is installed, commissioned and operated correctly. Before installation or using the unit, this manual should be studied carefully. It is also recommended that it is kept safely for future reference. The manual is intended as a reference for installation, commissioning and day-to-day operation of the Munters Controllers.

1.3 Notes

Date of release: July 2010

Munters cannot guarantee to inform users about the changes or to distribute new manuals to them.

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2 Introduction to RBS TH

The RBS Hanging Bird Scale support the following controllers.

- RBS-1TH: AC-2000 SE or AC-2000 3G
- RBS-2TH: RSC-2 SE

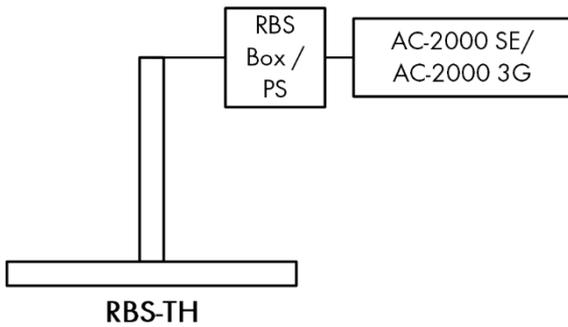


Figure 1: RBS-1TH Block Diagram

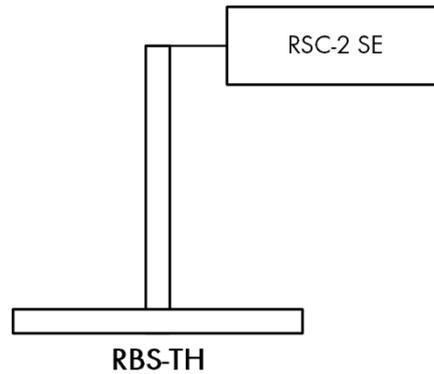


Figure 2: RBS-2TH Block Diagram

- RBS-3TH: Platinum, Platinum Pro, Trio, or RSU-2
- RBS-4TH: AC-2000 Plus

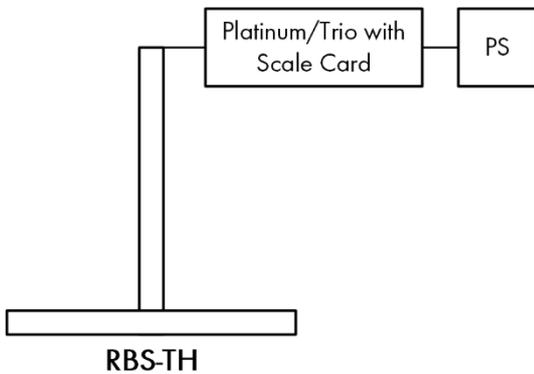


Figure 3: RBS-3TH Block Diagram

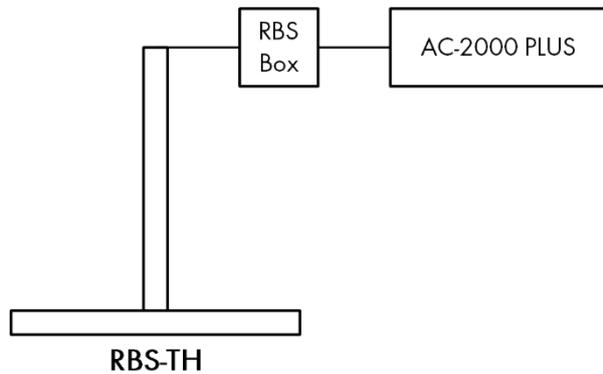
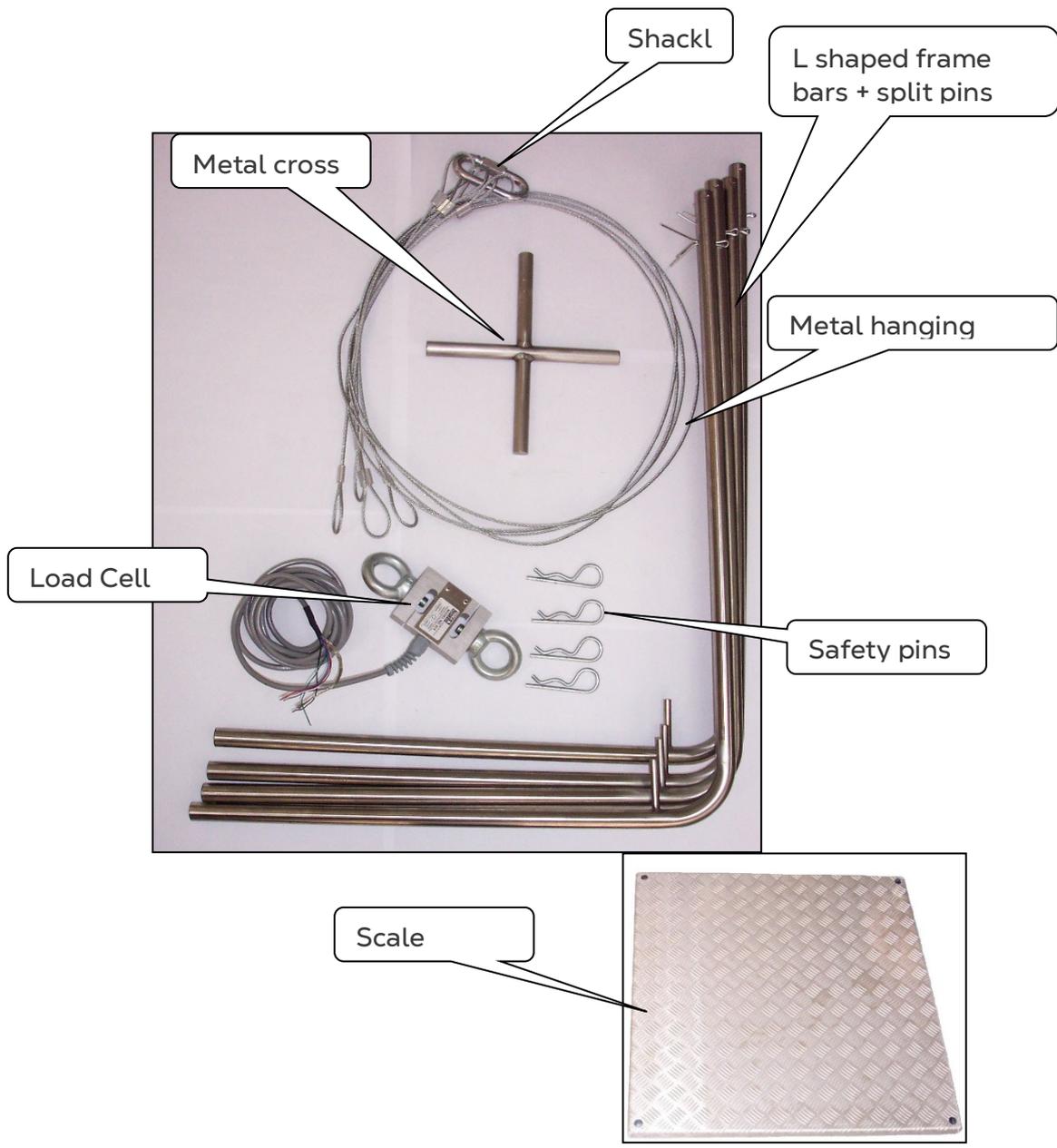


Figure 4: RBS-4TH Block Diagram

3 Physical Assembly

3.1 Parts List

- One scale platform
- One metal cross
- Four metal hanging cables
- One shackle
- One load cell
- Four L shape frame bars + split pins
- Four safety pins



3.2 Assembly Instructions

1. Connect the four L shaped bars to the scale platform as follows:
 - a. Thread the four hanging metal cables from the bottom side of the four frame bars (the bottom side is the side with the split pins) right up to the corner of the bar (Figure 5).



→ Bottom side

Figure 5

- b. Insert each bar to the holes on the four corners of the scale platform and use the safety pin to secure the bars in place.
- c. Start with the first bar on any corner (Figure 6)



Figure 6

- d. Continue with the second bar on the opposite side of the scale platform (Figure 7 and Figure 8) and use the metal cross to connect the two bars in the middle.

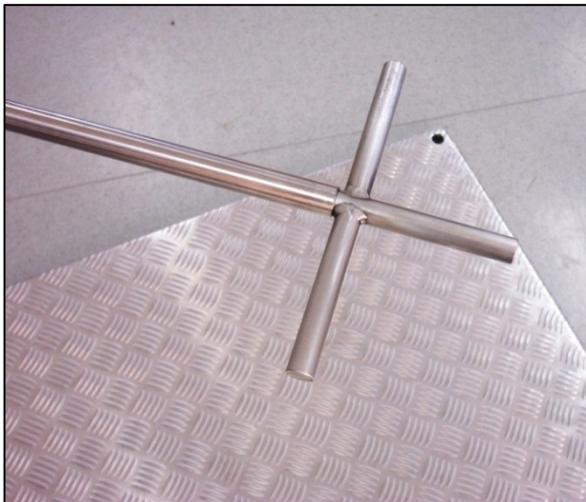


Figure 7

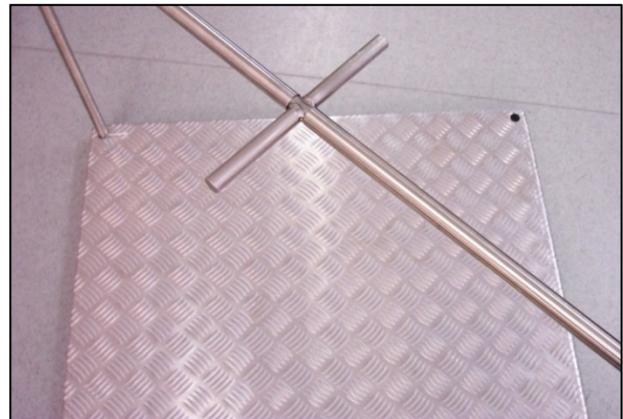


Figure 8

- e. Connect bars 3 and 4 in the same manner (Figure 9 and Figure 10).

CAUTION Do not forget to use the safety pins!

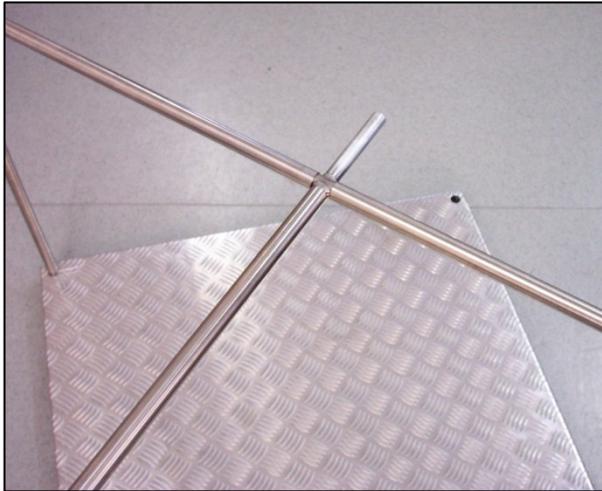


Figure 9



Figure 10

f. Thread the hanging cables and the load cell on to the shackle and screw tightly.



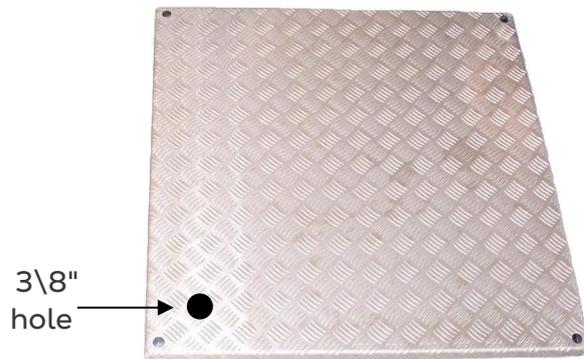
2. Place a hook measuring approximately 2.40 meter/7.3 feet above the ground. If possible make it height-adjustable for changes in flock growth.



3. Hang the load cell in place.

4. The scale platform has a 3/8" hole for a pole that will prevent platform swinging.

CAUTION *Insert the pole only after the scale is in place.*



4 RBS-1TH Wiring

AC-2000 SE and AC-2000 3G controllers support up to two (2) RBS-1TH scales. Refer to the controller manual for calibration instructions. Wire the:

- RBS-1TH to an RBS-1H box (Figure 12).
- RBS-1H box to a AC-2000 SE or AC-2000 3G Controller (Figure 13 and Figure 14).

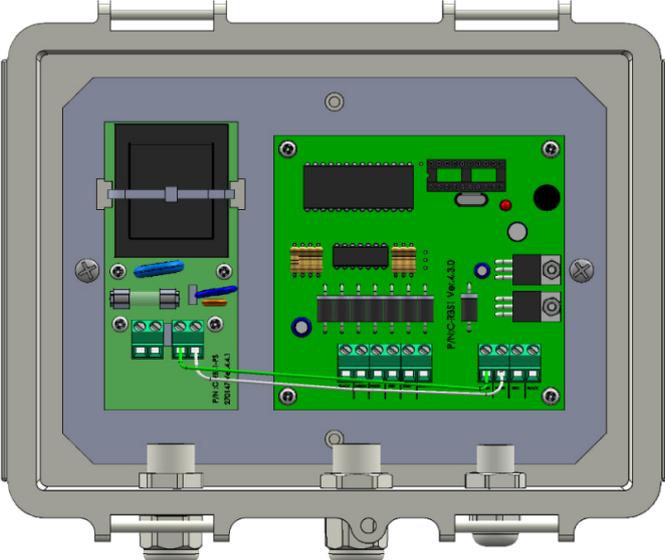
	Part Number	Description
	908-99-00005	RBS-1H HANG SCALE+230V POWER SUPPLY BOX (AC2000 SE/3G) CHICKEN/TURKEY
	908-99-00024	RBS-1H HANG SCALE+115V POWER SUPPLY BOX (AC2000 SE/3G) CHICKEN/TURKEY

Figure 11: RBS-1H Box

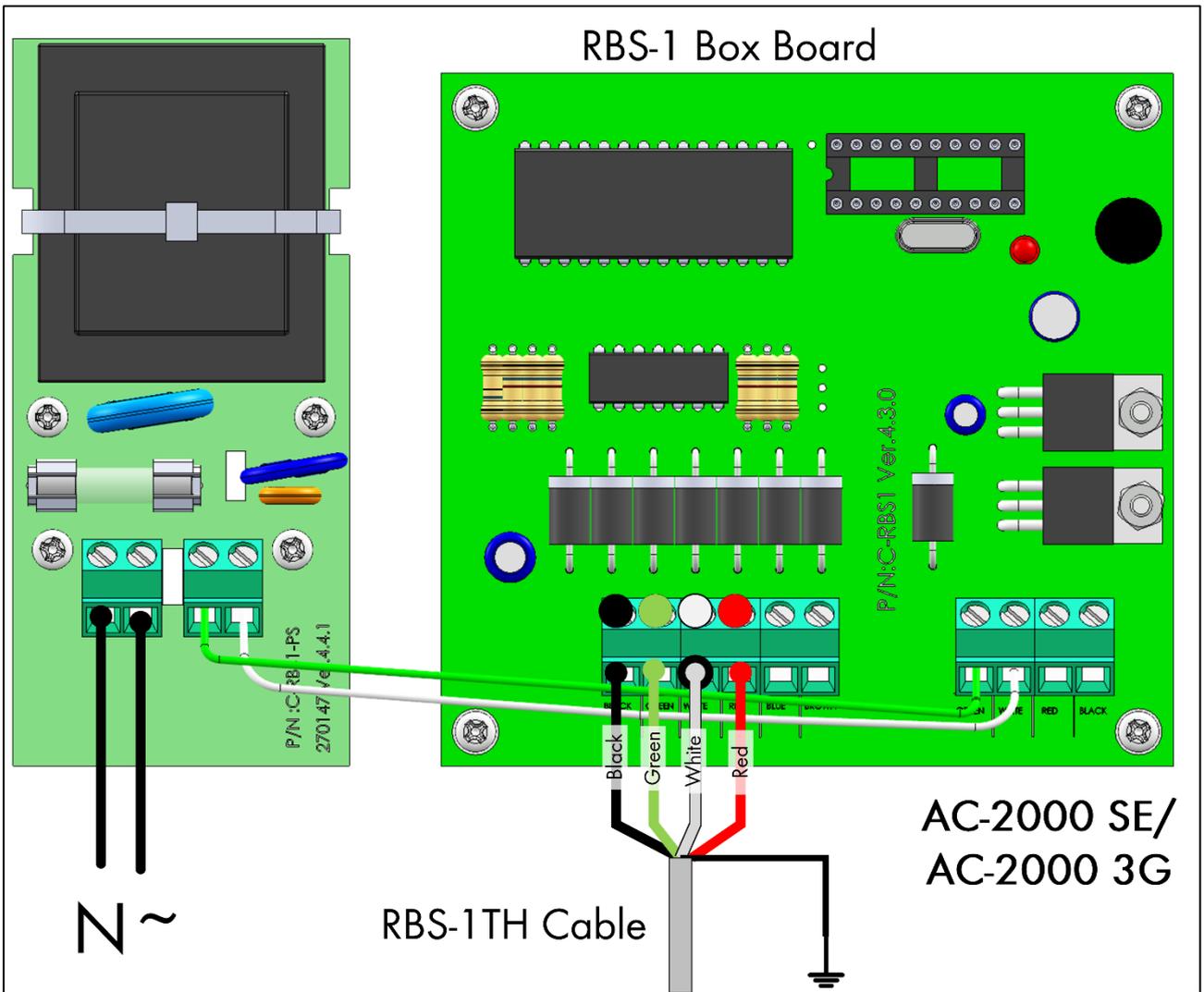


Figure 12: RBS-1H Box Wiring

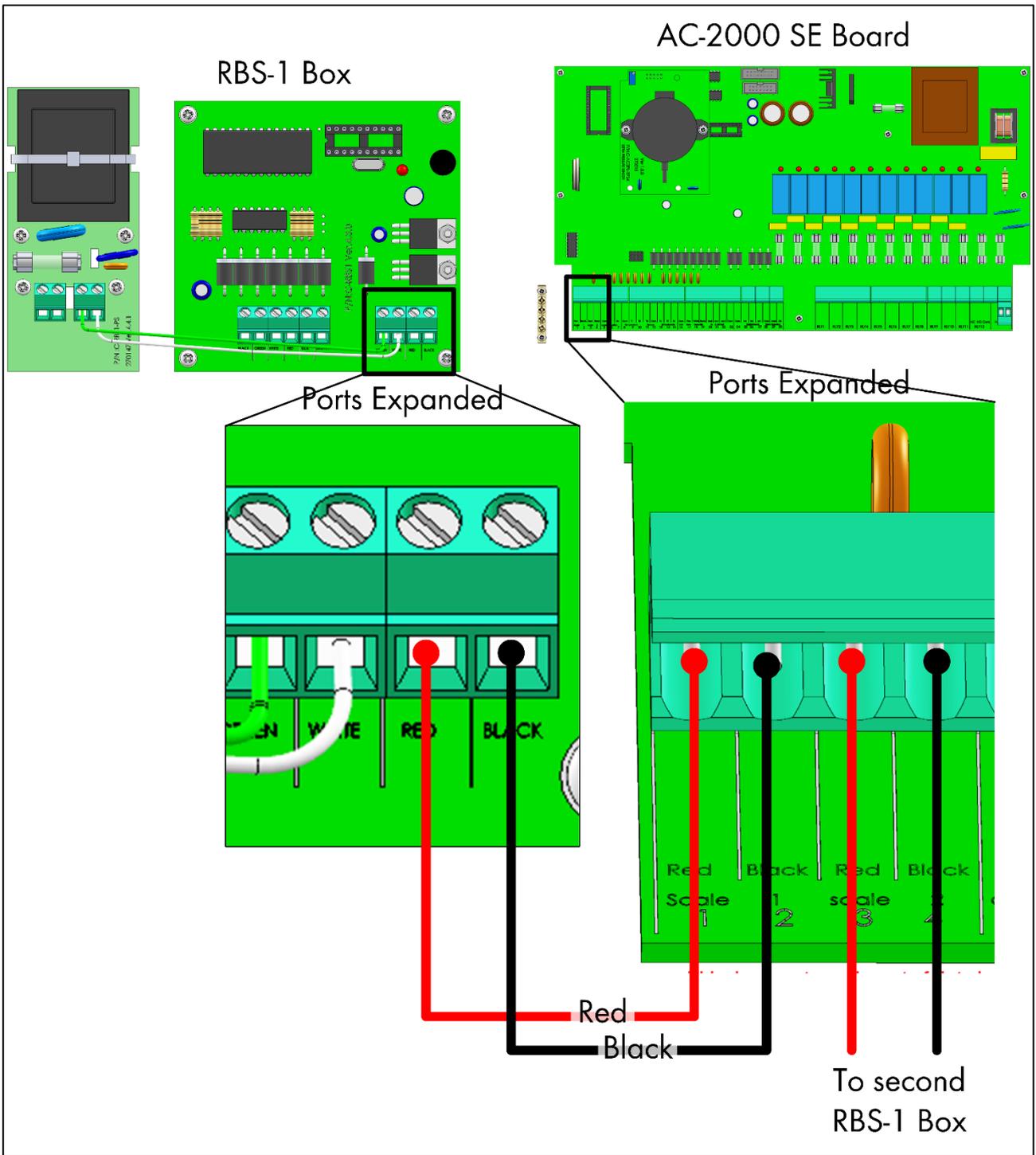


Figure 13: AC-2000 SE – RBS-1H Wiring

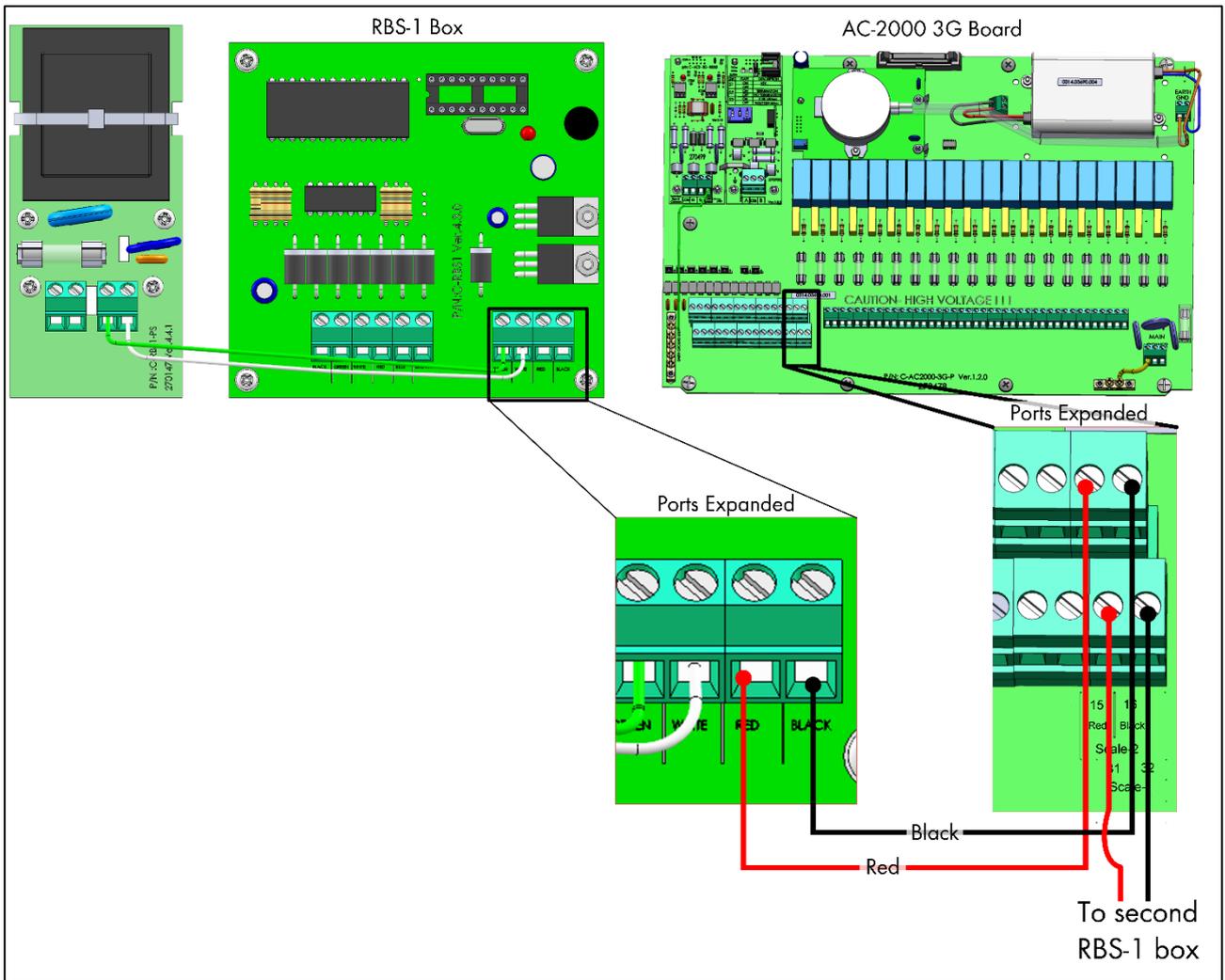


Figure 14: AC-2000 3G – RBS-1H Wiring

CAUTION Ground the RBS-1TH!

5 RBS-2TH Wiring

RBS-2TH supports the RSC-2 Scale Center. Insert the RBS cables into the relevant RSC ports. Wire the input power and computer inputs as shown in Figure 15.

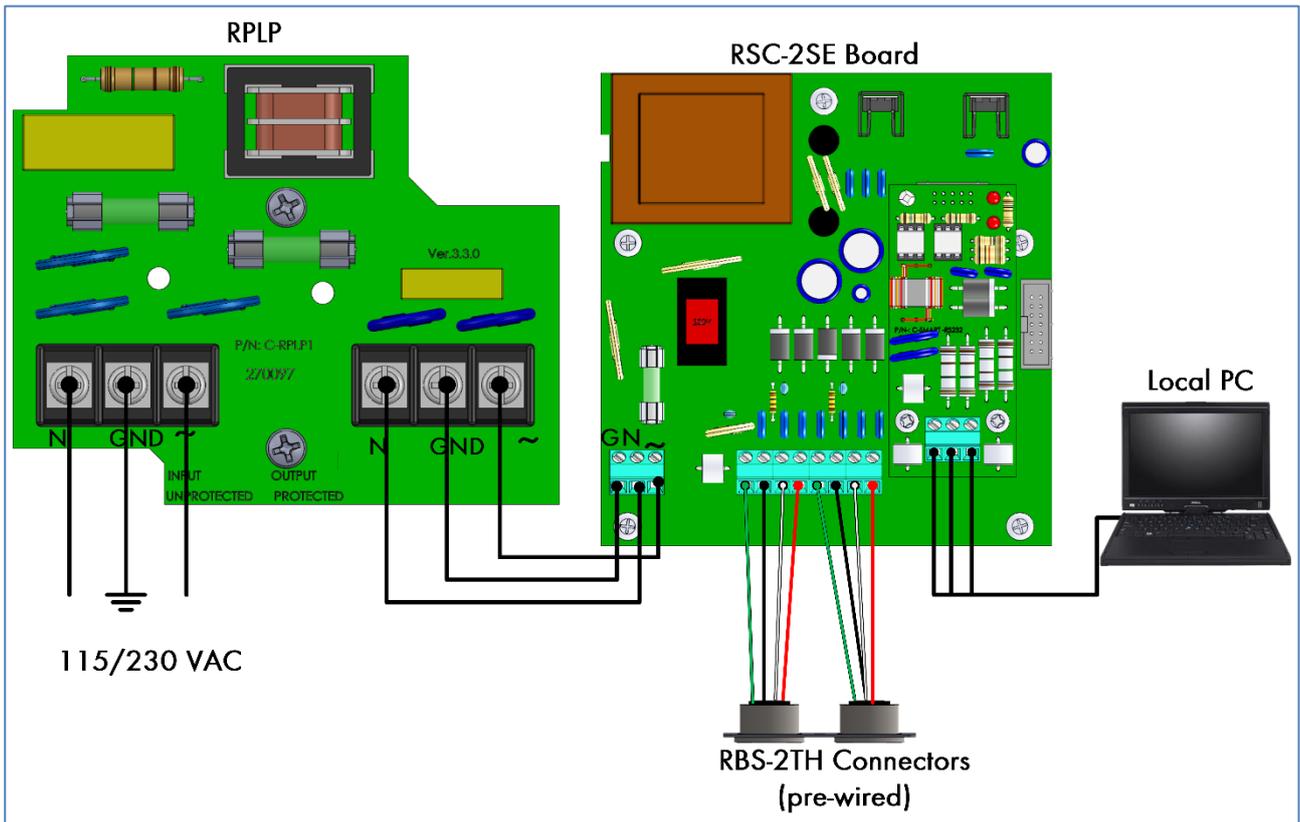


Figure 15: RPLP – RBS-2TH Wiring

Refer to the relevant RPLP manual for technical details.

6 RBS-3TH Wiring and Calibration

RBS-3TH supports the Platinum (Figure 16), Platinum Pro (Figure 17), Trio/Echo 2.0 (Figure 18), or RSU (Figure 19) units.

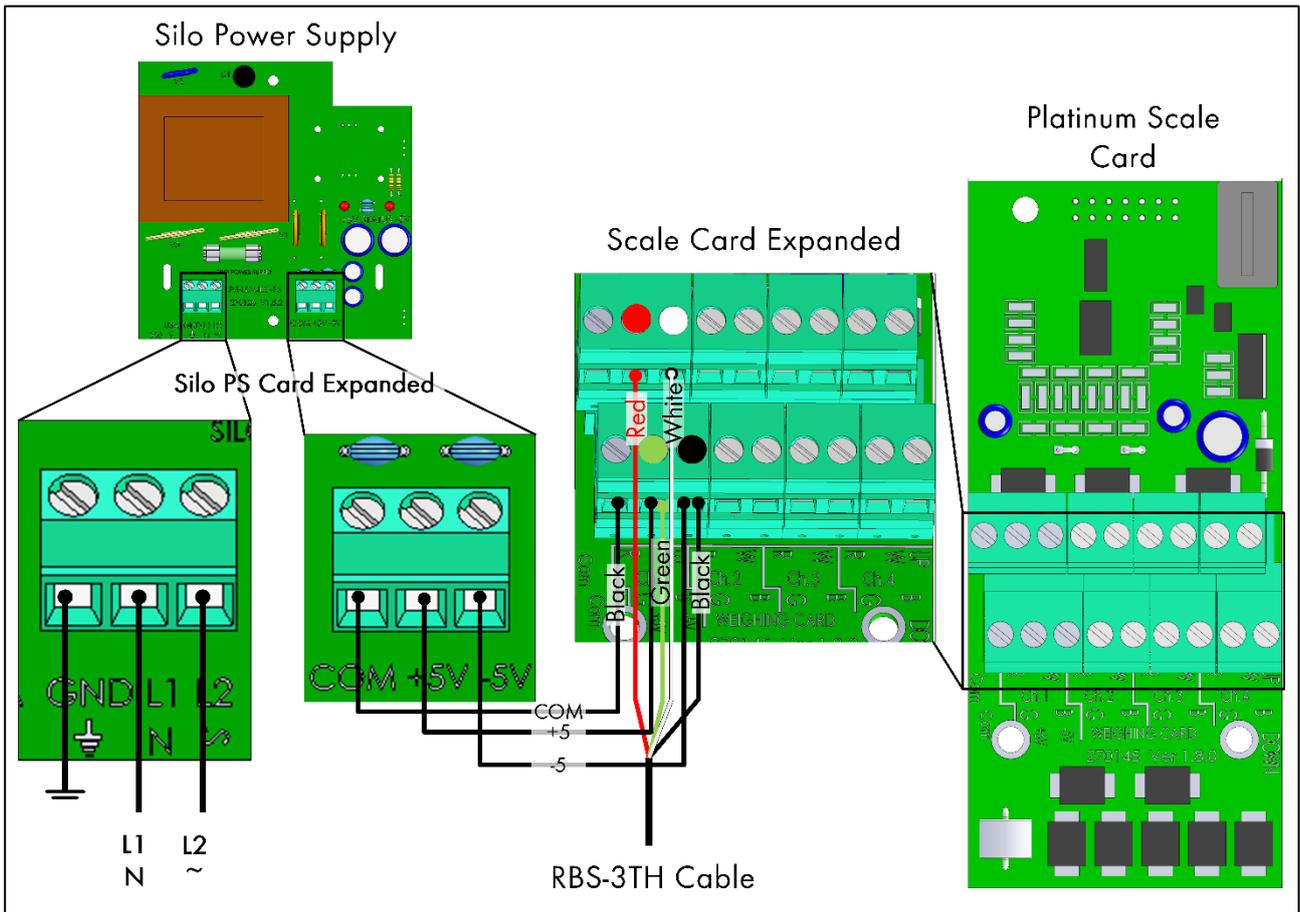


Figure 16: Platinum- RBS-3TH Wiring

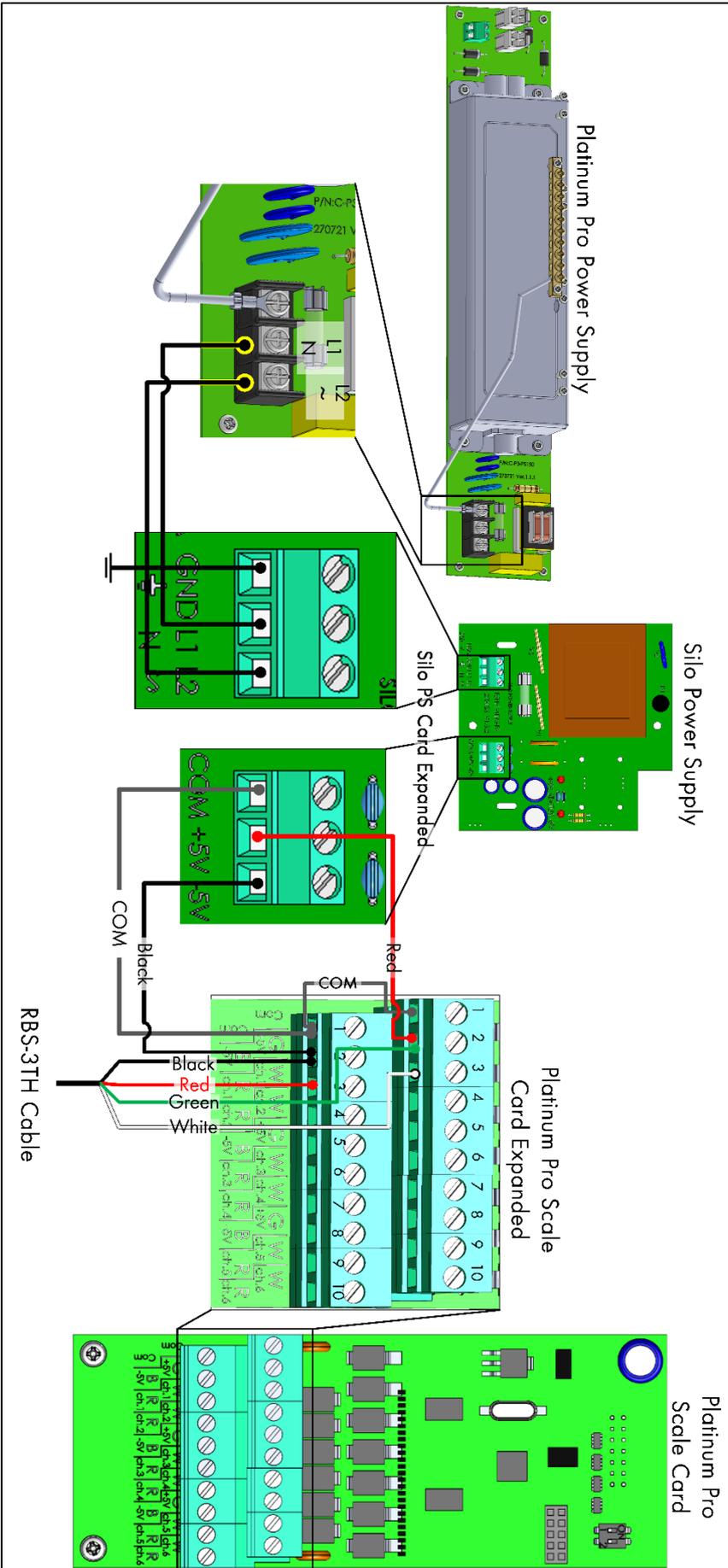


Figure 17: Platinum Pro – RBS-3TH Wiring

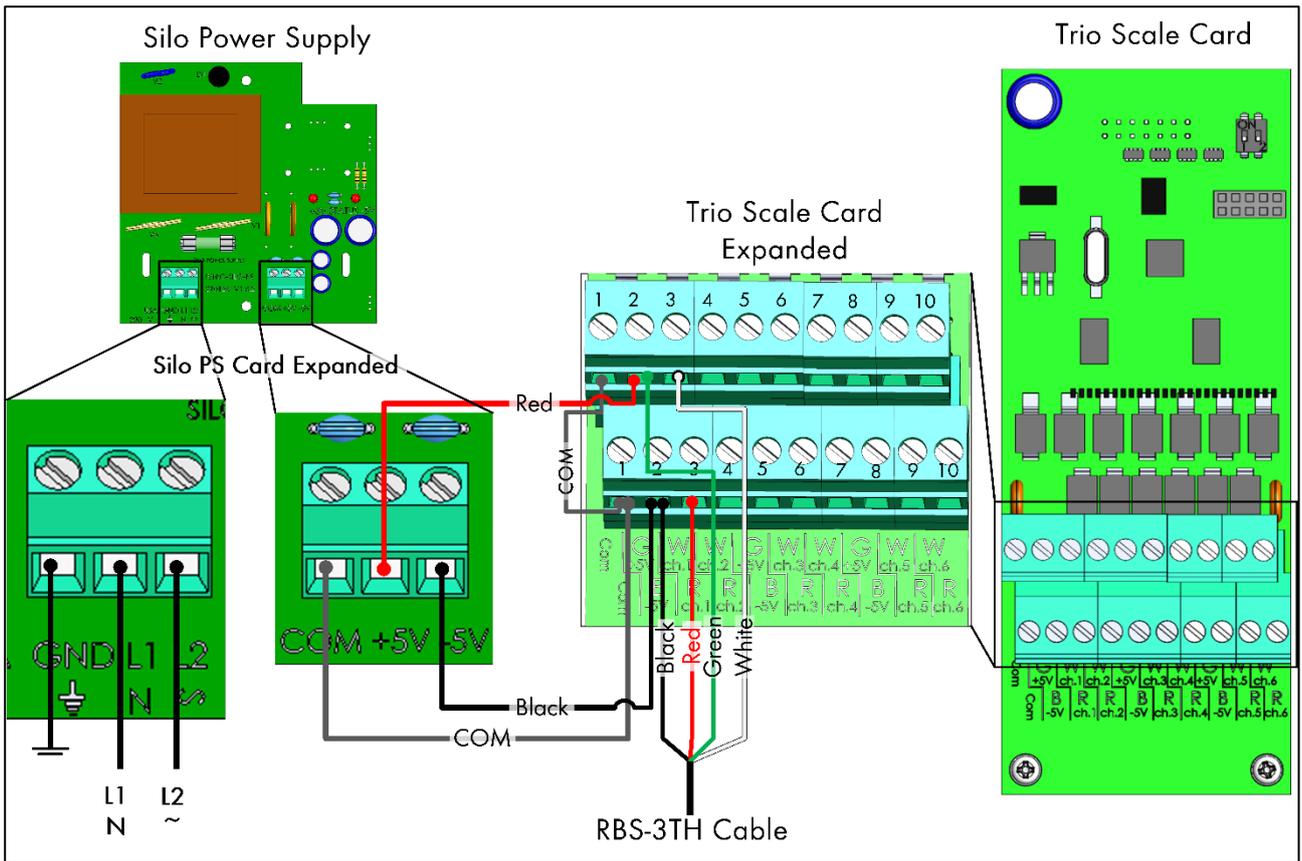


Figure 18: Trio/Echo 2.0 – RBS-3TH Wiring

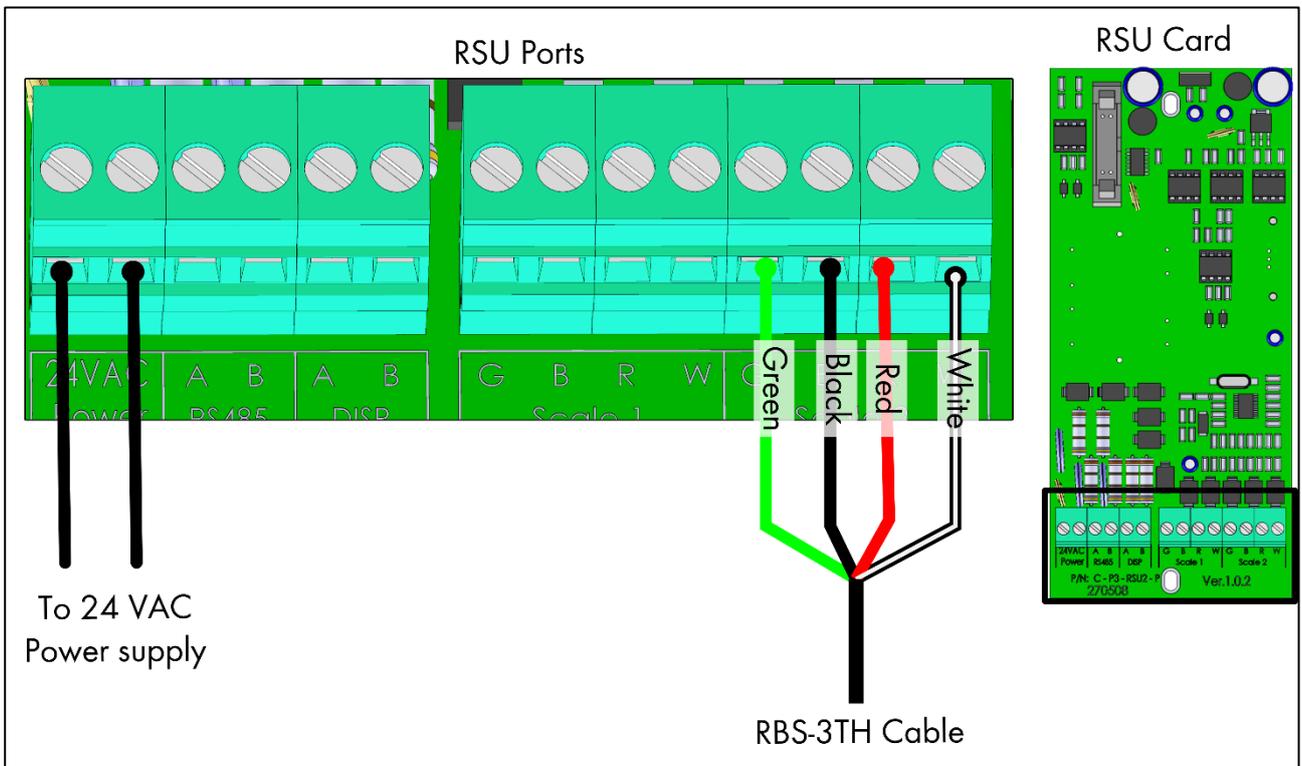


Figure 19: RSU – RBS-3TH Wiring

7 RBS-4TH Wiring

AC-2000 Plus can power two RBS-4TH units. No external power supply is required. Refer to the manual for calibration instructions.

Wire the:

- RBS-4TH to an RBS-4H box (Figure 21)
- RBS-4H box to a AC-2000 Plus Controller (Figure 22)

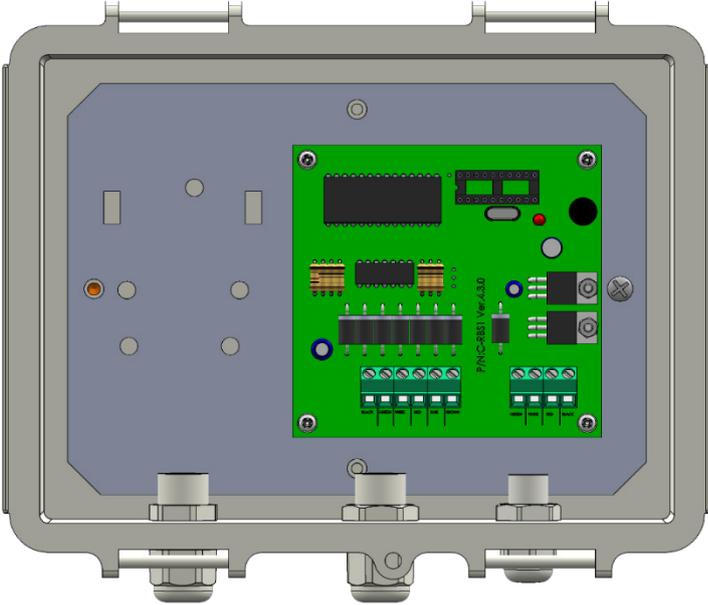
	<table border="1"> <thead> <tr> <th>Part Number</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>908-99-00025</td> <td>RBS-4H HANG SCALE BOX (AC2000 PLUS) CHICKEN/TURKEY</td> </tr> </tbody> </table>	Part Number	Description	908-99-00025	RBS-4H HANG SCALE BOX (AC2000 PLUS) CHICKEN/TURKEY
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Figure 20: RBS-4H Box

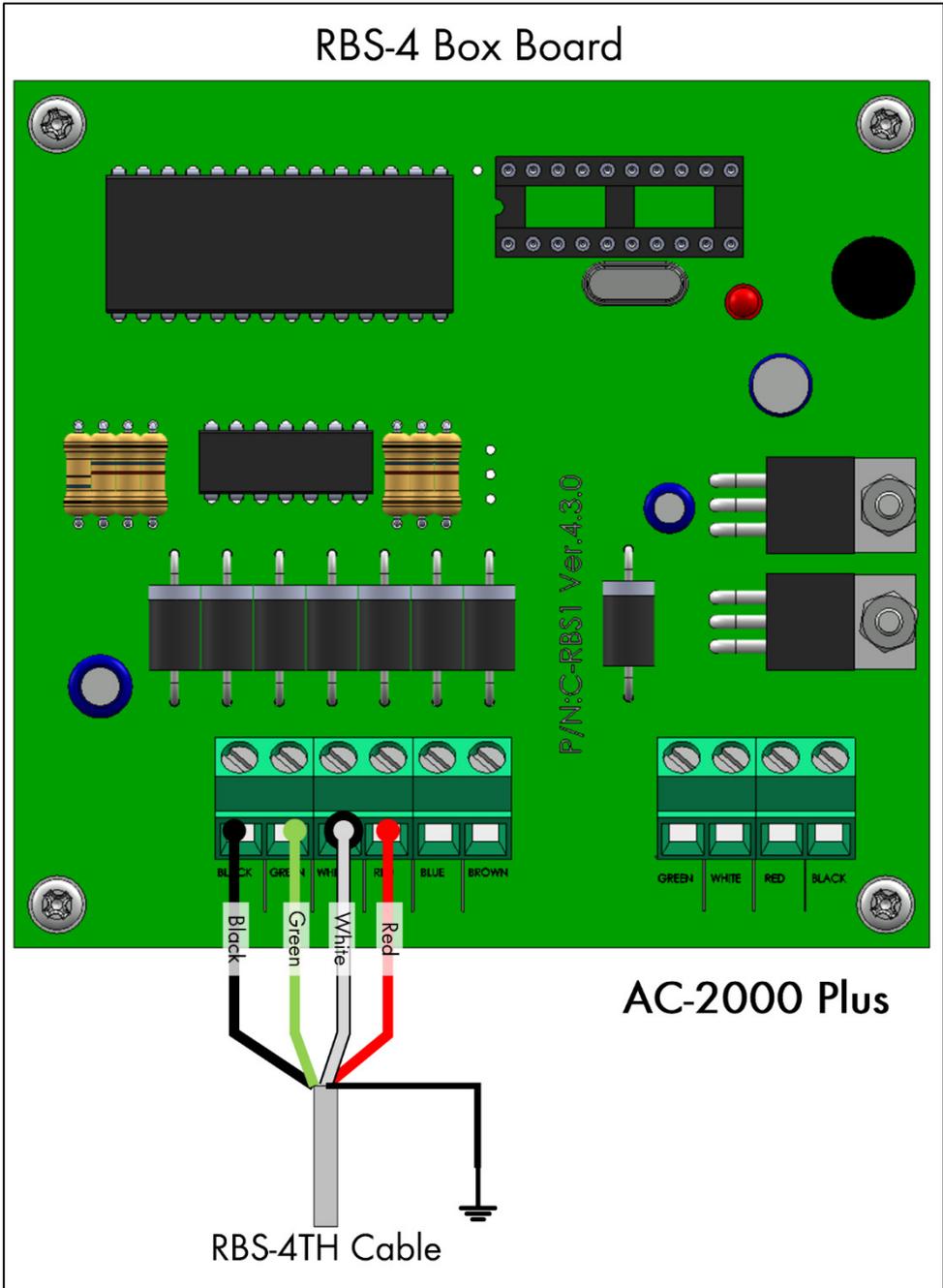


Figure 21: RBS-4H Box Wiring

8 Warranty

Warranty and technical assistance

Munters products are designed and built to provide reliable and satisfactory performance but cannot be guaranteed free of faults; although they are reliable products they can develop unforeseeable defects and the user must take this into account and arrange adequate emergency or alarm systems if failure to operate could cause damage to the articles for which the Munters plant was required: if this is not done, the user is fully responsible for the damage which they could suffer.

Munters extends this limited warranty to the first purchaser and guarantees its products to be free from defects originating in manufacture or materials for one year from the date of delivery, provided that suitable transport, storage, installation and maintenance terms are complied with. The warranty does not apply if the products have been repaired without express authorisation from Munters, or repaired in such a way that, in Munters' judgement, their performance and reliability have been impaired, or incorrectly installed, or subjected to improper use. The user accepts total responsibility for incorrect use of the products.

The warranty on products from outside suppliers fitted to the RBS TH, (for example antennas, power supplies, cables, etc.) is limited to the conditions stated by the supplier: all claims must be made in writing within eight days of the discovery of the defect and within 12 months of the delivery of the defective product. Munters has thirty days from the date of receipt in which to take action, and has the right to examine the product at the customer's premises or at its own plant (carriage cost to be borne by the customer).

Munters at its sole discretion has the option of replacing or repairing, free of charge, products which it considers defective, and will arrange for their despatch back to the customer carriage paid. In the case of faulty parts of small commercial value which are widely available (such as bolts, etc.) for urgent despatch, where the cost of carriage would exceed the value of the parts, Munters may authorise the customer exclusively to purchase the replacement parts locally; Munters will reimburse the value of the product at its cost price.

Munters will not be liable for costs incurred in demounting the defective part, or the time required to travel to site and the associated travel costs. No agent, employee or dealer is authorised to give any further guarantees or to accept any other liability on Munters' behalf in connection with other Munters products, except in writing with the signature of one of the Company's Managers.

WARNING: In the interests of improving the quality of its products and services, Munters reserves the right at any time and without prior notice to alter the specifications in this manual.

The liability of the manufacturer Munters ceases in the event of:

- dismantling the safety devices;

- use of unauthorised materials;
- inadequate maintenance;
- use of non-original spare parts and accessories.

Barring specific contractual terms, the following are directly at the user's expense:

- preparing installation sites;
- providing an electricity supply (including the protective equipotential bonding (PE) conductor, in accordance with CEI EN 60204-1, paragraph 8.2), for correctly connecting the equipment to the mains electricity supply;
- providing ancillary services appropriate to the requirements of the plant on the basis of the information supplied with regard to installation;
- tools and consumables required for fitting and installation;
- lubricants necessary for commissioning and maintenance.

It is mandatory to purchase and use only original spare parts or those recommended by the manufacturer.

Dismantling and assembly must be performed by qualified technicians and according to the manufacturer's instructions.

The use of non-original spare parts or incorrect assembly exonerates the manufacturer from all liability. Requests for technical assistance and spare parts can be made directly to the nearest [Munters office](#).

